

Figure 1A

No.	Kinase-Subclass	Family	Sub	Protein	α D sequence
1	Serine/Threonine	RAF		c-Raf	TQWCEGSSLYKHLHVQETK F
2	Serine/Threonine	RAF		Araf	TQWCEGSSLYHHLHVADTR F
3	Serine/Threonine	RAF		Braf	TQWCEGSSLYHHLHIETKF
4	Serine/Threonine	CAPK		cAPKa	MEYVPGGEMFSLRRIGRF
4	Serine/Threonine	CAPK		cAPKb	MEYVPGGEMFSLRRIGRF
5	Serine/Threonine	CAPK		cAPKg	MEYVPGGEMFSRLQRVGRF
6	Serine/Threonine	PKC		PKCa	MEYVNGGDLMYHIQQVGK F
7	Serine/Threonine	PKC		PKCb	MEYVNGGDLMYHIQQVGR F
8	Serine/Threonine	PKC		PKCg	MEYVTGGDLMYHIQQLGKF
9	Serine/Threonine	PKC		PKCd	MEFLNGGDLMFHIQDKGRF
10	Serine/Threonine	PKC		PKCe	MEYVNGGDLMFQIQRSRKF
11	Serine/Threonine	PKC		PKCet	MEFVNGGDLMFHIQKSRRF
12	Serine/Threonine	PKC		PKCth	MEYLNNGDLMYHIQSCHKF

DEFECTS

13	Serine/Threonine	Akt/PKB		Akt1/RacA	MEYANGGELFFHLSRERVF
13	Serine/Threonine	Akt/PKB		Akt2/RacB	MEYANGGELFFHLSRERVF
14	Serine/Threonine	GSK3		GSK3a	LEYVPETVYRVARHFTKAK LII
15	Serine/Threonine	GSK3		GSK3b	LDYVPETVYRVARHYSRAK QTL
16	Serine/Threonine	CK II		CK IIa	FEHVNTDFKQLYQTL
17	Serine/Threonine	CK II		CK IIa'	FEYINNTDFKQLYQIL
18	Serine/Threonine	bARK1,2		bARK1	LDLMNGGDLHYHLSQHG VF
18	Serine/Threonine	bARK1,2		bARK2	LDLMNGGDLHYHLSQHG VF
19	Serine/Threonine	GRK1		GRK1	MTIMNGGDIRYHIYNVDE DNP
20	Serine/Threonine	GRK4		GRK4	LTIMNGGDLKFHIYNLGN P
21	Serine/Threonine	GRK5		GRK5	LTIMNGGDLKFHIYNMGN P
22	Serine/Threonine	GRK6		GRK6	LTLMNGGDLKFHIYHMG QA

Figure 1C

23	Serine/Threonine	CaMK		CaMK I	MLVSGGELFDRIVEKGGY
24	Serine/Threonine	CaMK		CaMK IIa	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIb	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIg	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK II d	FDLVTGGELFEDIVAREYY
25	Serine/Threonine	POLO		Plk	LELCRRRSLLELHKRRKAL
26	Serine/Threonine	POLO		Plx1	LELCRRRSLLELHKRRKAV
27	Serine/Threonine	POLO		polo	LELCCKRSMELHKRRKSI
28	Serine/Threonine	POLO		SNK	LEYCSRRSMAHILKARKVL
29	Serine/Threonine	POLO		CDC5	LEICPNGSLMELLKRRKVL
30	Serine/Threonine	POLO		Sak	LEMCHNGEMNRYLKNRVK PF
31	Serine/Threonine	POLO		Prk	LELC SRKSLAHIWKARHTL

Figure 1D

31	Serine/Threonine	POLO		Fnk	LELC SRKSLAHIWKARHTL
32	Serine/Threonine	POLO		Plo1	LELCEHKSLMELLRK RKQL
33	Serine/Threonine	MARK/p 78		MARK1	MEYASGGEVFDYLV AHGR M
33	Serine/Threonine	MARK/p 78		MARK2	MEYASGGEVFDYLV AHGR M
34	Serine/Threonine	MARK/p 78		P78	MEYASGGKVFDYLV AHGR M
35	Serine/Threonine	CDK		CDK2	FEFLHQDLKKFMDASALTGI
36	Serine/Threonine	CDK		CDK4	FEHVDQDLRTYLDKAPPPG L
37	Serine/Threonine	CDK		CDK6	FEHVDQDLTTYLDKVPEPG V
38	Tyrosine	SRC		c-Src	TEYMSKGSLDLFLKGETGK YL
39	Tyrosine	SRC		c-Yes	TEFMSKGSLDLFLKEGDGK YL
40	Tyrosine	SRC		Fyn	TEYMNKGSLDLFLKDGEGR AL
41	Tyrosine	SRC		c-Fgr	TEFMCHGSLDLFLKNPEGQ DL

Figure 1E

42	Tyrosine	LYN/HC K		Lyn	TEYMAKGSLDFLKSDEGG KV
43	Tyrosine	LYN/HC K		Hck	TEFMAKGSLDFLKSDEGS KQ
44	Tyrosine	LCK		Lck	TEYMENGLVDFLKTPSGIK L
45	Tyrosine	CSK		Csk	TEYMAKGSLVDYLRSRGRS VL
46	Tyrosine	CSK		Matk	MEHVSCKGNLVNFLRTRGRA LV
47	Tyrosine	FAK		Fak	MELCTLGELRSFLQVRKYSL
48	Tyrosine	ABL		c-Abl	TEFMTYGNLLDYLRRCNRQ EV
49	Tyrosine	ENDOTH ELIAL	Tie/Tek	Tie	IEYAPYGNLLDFLRKSRVLE TDPAFAREHGTASTL
50	Tyrosine	ENDOTH ELIAL	Tie/Tek	Tek	IEYAPHGNLLDFLRKSRVLE TDPAFAIANSTASTL
51	Tyrosine	ENDOTH ELIAL	FGFR	Flg	VEYASKGNLREYLQARRPP GLEYCYNPSHNPEEQ
52	Tyrosine	ENDOTH ELIAL	FGFR	Bek	VEYASKGNLREYLARRPP GMEYSYDINKVPPEEQ
53	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-3	VEYAAKGNLREFLRARRPP GLDYSFDTCKPPEEQ

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Figure 1F

54	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-4	VECAAKGNLREFLRARRPP GPDLSPDGPRSSSEGPL
55	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-a	TEYCFYGDVNYLHKNRDS FLSHHPEKPKKELDIFGLNP A
56	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-b	TEYCRYGDVLDYLHRNKHT FLQHHSDKRPPSAELYSNA L
57	Tyrosine	ENDOTH ELIAL	Flt/Ftk	Flt1	VEYCKYGNLSNYLKSQRDL FFLNKDAALHMEPKKEKMB PG
58	Tyrosine	ENDOTH ELIAL	Flt/Ftk	Flt4	VEFCKYGNLSNLFRAKRDA FSPCAEKSPQGRFRAMV EL
59	Tyrosine	ENDOTH ELIAL	Flt/Ftk	Ftk1	VEFSKFGNLSLYLGRKRNEF VPYKSKGARFRQGDYVGE L
60	Tyrosine	HGFR		c-Met	LPYMKHGDLRNFIRNETHN P
61	Tyrosine	HGFR		c-Sea	LPYMRHGDLRHFIQAQERSP
62	Tyrosine	HGFR		Ron	LPYMCHGDLLQFIRSPQRNP
63	Tyrosine	EGFR		EGFR	TQLMPFGCLLDYVREHKDN I
64	Tyrosine	EGFR		ErbB2	TQLMPYGCCLLDHVRNRGR L
65	Tyrosine	EGFR		ErbB3	TQYLPLGSLLDHVRQHRGA L

Figure 1G

66	Tyrosine	EGFR		ErbB4	TQLMPHGCLLEYVHEHKDNI
67	Tyrosine	RET		Ret	VEYAKYGSRLRGFLRESRKV GPGYLGSGGSRNSSSLDHPD ERAL
68	Tyrosine	TRK- NGFR		Trk - NGFR	FEYMRHGDLNRF LRSHGPD AKLLAGGEDVAPGPL
69	Tyrosine	TRK- NGFR		TrkB	FEYMKHGDNLNKFLRAHGPD AVLMAEGNPPTTEL
70	Tyrosine	TRK- NGFR		TrkC	FEYMKHGDNLNKFLRAHGPD AMILVDGQPRQAKGEL
71	Tyrosine	SYK/ZA P70		Syk	MEMAELGPLNKYLQQNRHV
72	Tyrosine	SYK/ZA P70		Zap70	MEMAGGGPLHKFLVGKRE EI
73	Tyrosine	TYK/JA K		Jak1	MEFLPSGSLKEYLPKNKNI
74	Tyrosine	TYK/JA K		Jak2	MEYLPYGSLRDY LQKHKER I
75	Tyrosine	TYK/JA K		Jak3	MEYLPSGCLRDY LQRRHAR L
76	Tyrosine	TYK/JA K		Tyk2	MEYVPLGSLRDY LPRHSI
77	Serine/Threonine	IAK		Iak1	LEYAPLGTVYRELQKLSKF

Figure 1H

78	Serine/Threonine	CHK		Chk1	LEYCSGGELFDRIEPDIGM
79	Serine/Threonine	IKK		IKK-1	MEYCSGGDLRKLKLNKPENC CGL
80	Serine/Threonine	IKK		IKK-2	MEYCQGGDLRKYLNQFEN CCGL
81	Serine/Threonine	DAPK		DAPK	LELVAGGELFDFLAEKESL
82	Tyrosine	IRK		IRK	MELMAHGDLKSYLRSLRPE AENNPGRPPPTL
83	Serine/Threonine	Activin/T GFbR	TGFbR	TGFbRII	TAFHAKGNLQEYLTRHVI
84	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIA	TAFHEKGSLSDFLKANVV
85	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIB	TAFHDKGSLTDYLGKNI
86	Serine/Threonine	Activin/T GFbR	ALK	ALK1	THYHEHGSLYDFLQRQTL
87	Serine/Threonine	Activin/T GFbR	ALK	ALK2	THYHEMGSLYDYQLQTL
88	Serine/Threonine	Activin/T GFbR	ALK	ALK3	TDYHENGSLYDFLKCATL
89	Serine/Threonine	Activin/T GFbR	ALK	ALK4	SDYHEHGS�FDYLNRYTV

Figure 11

89	Serine/Threonine	Activin/T GFbR	ALK	ALK5	SDYHEHGSFLFDYLNRYTV
90	Serine/Threonine	Activin/T GFbR	ALK	ALK6	TDYHENGSLYDYLKSTTL
91	Tyrosine	DDR		DDR1	TDYMENGDLNQFLSAHQL
92	Tyrosine	DDR		DDR2	TEYMENGDLNQFLSRHEP
93	Serine/Threonine	ILK		ILK	THWMPYGSLYNVLHEGTNF VV
94	Tyrosine	MAPK		JNK	MELMDANLCQVIQMEL

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Figure 2A

Protein Kinase

c-Raf T Q W C E G S S L Y K H L H I E T K F
 Araf S N F S D A T T I F H I V D S R W Y
 Braf Y * M W R M M * Y
 V V L

cAPKα M E Y V P G G E M F S H L R R I G R F
 cAPKβ I Q F L N A A D L M F R I Q H V R K W Y
 cAPKγ L D W A T * I W Y Q M S Q E D L K I V Y
 V N I S V Y W K V K D L K I
 * M Q I T N N K K A L
 G L T S S M
 V L T S S N C
 E M
 T R
 * T

PKCa M E Y V N G G D L M F H I Q V G K F
 PKCb I D F L T A A E I I Y Q L N D L R R W Y
 PKCγ L * W I Q * M L W N M R K H Y
 PKCd V M S V V V K S K
 PKCe S C A
 PKCet N I
 PKCth E M
 T R
 * T

Akt1/Racα M E Y A N G G E L F F H L S R E R V F
 Akt2/Racβ I Q F V Q A A D I W W I T H D K I W
 DmRAC L D W I * M Y Y M K * L Y
 V N L V M
 * M
 G

GSK3α L E Y V P E T V Y R V A R H Y T K A K Q I I
 GSK3β I D F I D S I H K I I K Q F S R T N L T L
 Sgg/zw3 M * W L * L F L V N W A L R N R M
 ASK-a V M M W M L N S Q I L V
 ASK-g M M G I M V V S
 G V G K

CK IIα F E H V N N T D F K Q L Y Q T L
 CK IIβ W D Y I Q Q S E W R N I F N I I
 Y * F L * Y M W S M
 W M V V
 V L

Figure 2B

bARK1	L D L M N G G D L H Y H L S Q H G V F N P G F
bARK2	M T I I I Q A A E I R F I Y N V D E D G F A W
GRK1	I E M L * M K W M T H L E N P Q W Y
GRK4	V S V V V V F M A Q A A Y
GRK5	* I * I W
GRK6	W I * I W
	ME
	D G
	* *

CaMK I	M Q L V S G G E L F D R I V E K G G Y
CaMK IIa	F D I I T A A D I W E D L I A R E Y F
CaMK IIb	W N M L * M Y * K M L D D F W
CaMK IIg	Y E V M V E V M G A W
CaMK IId	I * * * A

Plk	L E L C R R R S L L E L H K R R K A L F
Plx1	I D I S K K G E M M A I L R A H S V W
Polo	M * Y S N K K D I N R Y W N V V I Y
SNK	V M P H A T V A H M I K R K P
CDC5	V F H Q * I D V M I T M
Sak	F E V K F V L Q
Prk	W T Q G W F M T
Fnk	D G * Y I
Plc1	* I L
	M
	R
	N
	G

P78	M E Y A S G G E V F D Y L V A H G R M
MARK1	L D F G T A A K I W E F I I G A K I
MARK2	I * W D L Y * W M L L
Par1	V R M V M V

CDK2	F E F L H Q D L K K F M D A V A L T G I
CDK4	W D H V D N E I R T Y L E K S P P A L V
CDK6	Y * W I E * M T R W I * R A G E S I M V
	Y M * V S S V G I L M V
	D
	*

Figure 2C

c-Src	T E F M S K G S L L D F L K G E T G K Y L
c-Yes	M D Y V V N H A N I V N Y I R E G S R R Q D Q A V
Fyn	S * H I C N T M I E W M D P D K Q D Q I
c-Fgr	I L W L A R Q V M Q * N D E A G K I
Lyn	L E Q * S R G A S V M
Hck	V T Q T K A I L N
Lck	D Q A * A F
Csk	G D N W
Matk	* G T E
	L R
	M I
	V M
	G
	*

Fak	M E L C T L G E L R S F L Q V R K Y S L
	I D I S S I A D I K T W I N I K R F T I
	L * M M * M Y M L W M
	V V V V V M V
c-Abl	T E F M T Y G N L L D Y L R E C N R Q E V
	S D W I S F A Q I I E F I K D S Q K N D I
	* Y L W M M * W M * L
	V V V V M

Tie	I E Y A P Y G N L L D F L R K S R V L E T D P A F A R E H G T
Tek	T D F C R H A D I V N Y I H R N K H T S D F L S N K H S D I A N S P
PDGFR-b	V * W S F F Q M S T W M K K D S D W S L C Y G P E K R R R P E
PDGFR-a	M L G T K W * E V I E M Q T A T G Q N A E Y V P I E Q F D K A P K K M S
Flt1	S Y G Y * M S T S * I L I M M E V Q D G * Y T * L M I V T * T R I L V N W Y A
Flt4	
Flk1	

Tie	S T L Y S N A L
Tek	A E F G L E P A
PDGFR-b	D I E K M V E G
PDGFR-a	K K R A V G D I
Flt1	R F D F T Q G M
Flt4	G S I W I D * V
Flk1	T D M R I L
	E L V M A
	* M W * *
	V Y
	R K
	W *
	Y
	*

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TOEFL

Flg	E	Q	L
Bek	G	P	M
FGFR-3	D	N	I
FGFR-4	A		V
	*		

EGFR	T	Q	M	P	F	G	C	L	D	E	R	H	N	I
ErbB2	S	N	L	L	Y	A	S	I	B	H	Q	K	R	L
ErbB3		I	I	L	L			M	F	F	D		G	M
ErbB4		M	V	V	W			V	W		*		A	V
		F	W		I								K	
					M									
					V									

Ret S S L D H P D E R A L
 T T I E E D K G I
 M * * * M
 V V

Figure 2E

Syk Zap70

Jak1	M	E	F	L	P	S	G	S	L	K	E	Y	L	P	K	N	K	N	K	I	L
Jak2	I	D	Y	I	S	A	T	I	R	D	F	I	Q	N	R	H	R	S	A	R	M
Jak3	L	*	W	M	T	T	C	T	M	*	W	M	N	Q	S	T					
Tyk2	V			V		F	W	L	I				V				Q	D	G	I	L

Iakl

L	E	Y	A	P	L	G	T	V	Y	R	E	L	Q	K	L	S	K	F
I	D	F	G		I	A	S	I	F	K	D	I	N	R	I	T	R	W
M	*	W			M			L	W	*	M				M			Y
V					V			M			V				V			

Chk1
L E Y C S G G E L F D R I E P D I G M
I D F S T A A D I W E K L D E L A I
M * W * M Y * M * * M L
V V V V V V

IKK-1 MEYFS SGGDLRLNLNKPENCCGLI
IKK-2 IDYCSQA AAEIKR IYIQ QFDPQS SAAMI
L*W T *E M V M V N Y M V
V N V V F W

DAPK L E L V A G G E L F D F L A E K E S L
I D I I G A A D I W E W I G D R D T I
M * M L * M Y * Y M * * M
V V M V V V

IRK MELMAHGDLKSYLRSLRPEAENNPPGRPPPTL
 IDIIG AEIRTFIKTIK DGDQQ AK SI
 L*ML *M WM M * * M
 V VV V V V V V V

TGF β RII	T	A	F	H	A	K	G	N	L	Q	E	Y	L	T	R	H	V	I
ACTRIIA	S	G	W		E	R	A	S	I	S	D	F	I	K	A	N	I	V
ACTRIIB			Y		D			Q	M	T	*	W	M	S	G	Q	L	L
					G			T	V				V	R	K		M	M

Figure 2F

ALK1	T	H	Y	H	E	H	G	S	L	Y	D	F	L	Q	R	Q	T	L
ALK2	S	D	F	D	M	A	T	I	F	E	Y	I	K	L	T	S	V	
ALK3		E	W	*	N			M	W	*	W	M	N	C	A	I		
ALK4		*			I			V			V	R	S	Y		M		
ALK5					L							K	N					
ALK6					V							I	S					
					Q							V	W					
												T	G					

Trk-NGFR	F	E	Y	M	R	H	G	D	L	N	R	F	L	R	S	H	G	P	D	A	K	L	L	A	G	G	E	D	V	A	P
TrkB	W	D	F	I	K		A	E	I	Q	K	W	I	K	A		A		E	G	V	I	M	V	E	A	N	P	P	T	E
TrkC	Y	*	W	L				*	M			Y	M		T			*		M	M	I	I	D		Q	E	R	Q	A	
				V					V			V		G						R	V	V	L	A		D	*	*	I	S	D
																				I			M	*					L	N	G
																				L			G						M	G	*
																												K			

Trk-NGFR	P	L	L
TrkB	G	E	I
TrkC	A	I	M
		M	V
		V	
		D	
		*	

DDR1	T	D	Y	M	E	N	G	D	L	N	Q	F	L	S	A	H	Q	L
DDR2	S	E	F	I	D	Q	A	E	I	Q	N	W	I	T	R		E	P
	*	W	L	*			*	M			Y	M	K		N	I		
			V					V			V	G			D	V		
															*	M		

ILK	T	H	W	M	P	Y	G	S	L	Y	N	V	L	H	E	G	T	N	F	V	V
	S		F	I		F	A	T	I	F	Q	I	I		D	A	S	Q	W	I	I
			Y	L		W			M	W		L	M	*					Y	L	L
				M					V			M	V								M

THE

Peptide	N-terminal	C-terminal
<u>AK1/Raca</u>		
95 K014D001	Myristyl- G M E Y A N G G E L F F H L S R E R V F	-NH2
<u>ALK1</u>		
96 K048D101	Myristyl- G T H Y H E H G S L Y D F L Q R Q T L	-NH2
<u>Braf</u>		
97 K003D001	Acetyl- K K K K K K G S S L Y H H L H I I E T K F	-NH2
98 K003D101	Myristyl- G T Q W S E G S S L Y H H L H I I E T K F	-NH2
<u>c-Abl</u>		
99 K061D101	Myristyl- G T E F M T Y G N L L D Y L R E C N R Q E V	-NH2
<u>c-Met</u>		
100 K073D101	Myristyl- G L P Y M K H G D L R N F I R N E T H N P	-NH2
<u>c-Raf</u>		
101 K001D101	Myristyl- G T Q W S E G S S L Y K H L H V Q E T K F	-NH2
102 K001D001	Acetyl- S S L Y K H L H V Q E I T K F	-NH2
<u>c-Sec</u>		
103 K074D101	Myristyl- G L P Y M R H G D L R H F I R A Q E R S P	-NH2
<u>c-Src</u>		
104 K051D101	Myristyl- G T E Y M S K G S L L D F L K G E T G K Y L	-NH2
105 K051D001	Acetyl- G S L L D I L K G E I T G K F L	-NH2
<u>CDK2</u>		
106 K049D101	Myristyl- G F E F L H Q D L K K F M D A S A L T G I	-NH2
107 K049D001	Acetyl- D I L K K F M D I A S A L T G M	-NH2
<u>CDK4</u>		
108 K050D001	Acetyl- D I L R T Y L D I K A P P P G L	-NH2
109 K050D101	Myristyl- G F E H V D Q D L R T Y L D K A P P P G L	-NH2
<u>CDK6</u>		
110 K089D101	Myristyl- G F E H V D Q D L T T Y L D K V P E P G V	-NH2
<u>Chk1</u>		
111 K088D102	Myristyl- G E Y S S G G E L F D R I E P D I G M	-NH2
112 K088D101	Myristyl- G E Y A S G G E L F D R I E P D I G M	-NH2
<u>CK IIa</u>		
113 K022D001	Acetyl- K K K K K G G N N T D F K Q L Y Q T L	-NH2
114 K022D101	Myristyl- G F E H V N N T D F K Q L Y Q T L	-NH2

Figure 3B

Csk		
115 K058D101	Myristyl - G T E Y M A K G S L V D Y L R S R G R S V L	-NH2
116 K058D001	Acetyl - G S L V D I L R S R G R S V L	-NH2
Fak		
117 K060D101	Myristyl - G M E L S T L G E L R S F L Q V R K Y S L	-NH2
FGFR-3		
118 K071D101	Myristyl - G G N L R E F L R A R R P P G L E	-NH2
119 K071D001	Acetyl - G N L R E I F L R A R R P P G L E I	-NH2
120 K071D102	Myristyl - G V E Y A A K G N L R E F L R A R R P P G L E	-NH2
121 K071D901	Stearyl - G S F D T S K P P E E Q L	-NH2
Flk1		
122 K068D101	Myristyl - G V E F S K F G N L S N F L R A K R N L F V P	-NH2
123 K068D101	Myristyl - G G N L S N F L R A K R N L F V P	-NH2
124 K068D001	Acetyl - G N L S N F L R A K R N L F V P	-NH2
125 K068D901	Stearyl - G R F R Q G K D Y V G E L	-NH2
GSK3b		
126 K018D003	Acetyl - K K K K K K G G G V A R H Y S R A K Q T L P	-NH2
127 K018D002	Acetyl - V A R H Y S R A K Q T L P	-NH2
128 K018D101	Myristyl - G D Y V P E T V Y R V A R H Y S R A K Q T L	-NH2
129 K018D001	Acetyl - R V A R H Y S R A K Q T	-NH2
Hck		
130 K056D101	Myristyl - G T E F M A K G S L L D F L K S D E G S K Q	-NH2
Iak1		
131 K087D101	Myristyl - G L E Y A P L G T V Y R E L Q K L S K F	-NH2
IKK-1		
132 K090D101	Myristyl - G M E Y S S G G D L R K L L N K P E N S S G L	-NH2
IKK-2		
133 K091D101	Myristyl - G M E Y S Q G G D L R K Y L N Q F E N S S G L	-NH2
ILK		
134 K107D101	Myristyl - G T H W M P Y G S L Y N V L H E G T N F V V	-NH2
135 K107D901	Stearyl - G Y N V L H E G T N F V V	-NH2

[illegible]K:\RWAGNER\CMCC679\FIGURES

% change in daily food
consumption (g/mouse/d)

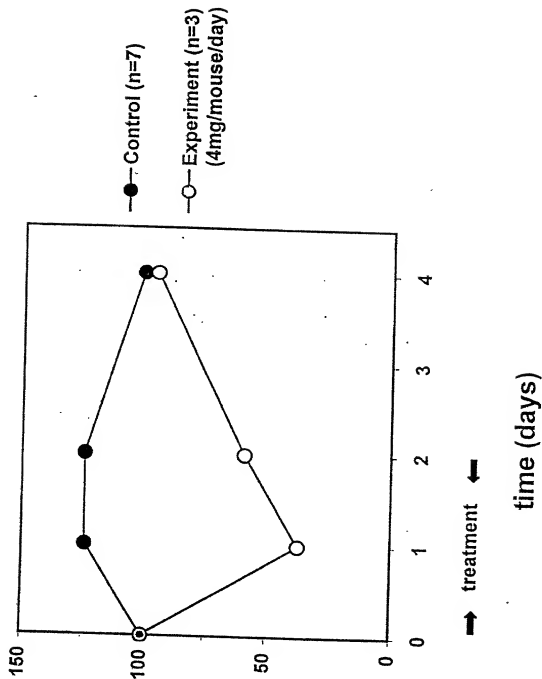


Figure 4

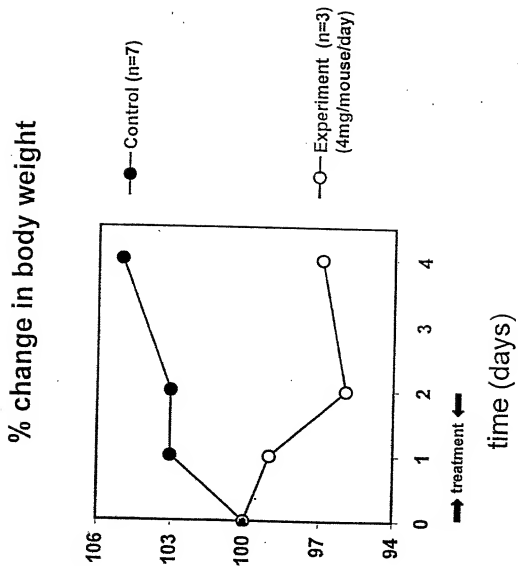


Figure 5

MODULATION OF TH1/TH2 DIFFERENTIATION
BY A JAK-DERIVED PEPTIDE

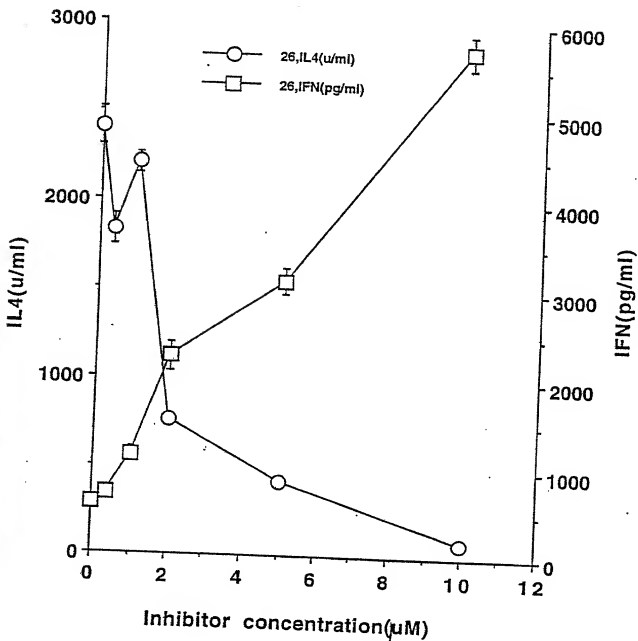


Figure 6

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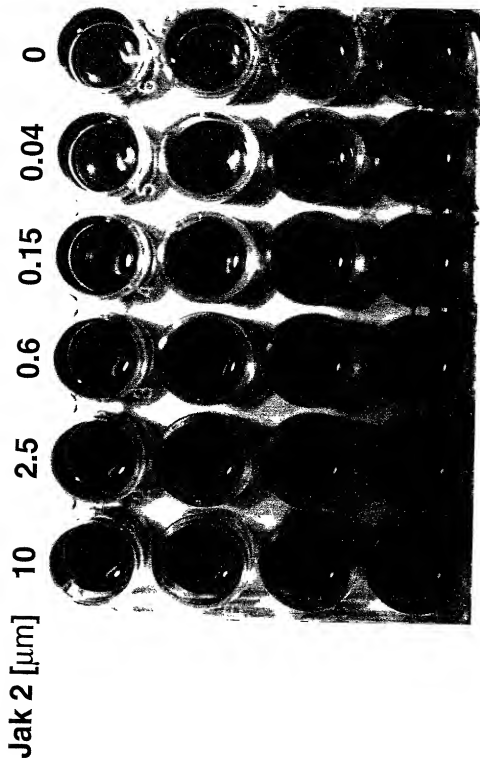


Fig. 7